

"The War on Cheatgrass"

A Bill to Improve Land Health and Limit Catastrophic Wildfires



Cheat Grass and Wildfires

Cheat grass can take over a landscape and result in increased wildfires ... is this the future of Utah's wild lands?





Scope of the Problem

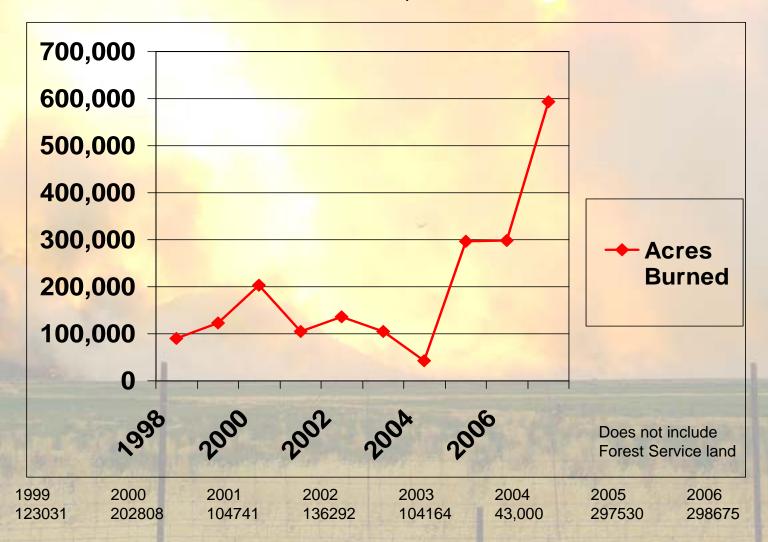
Size of Wildfires are Increasing,

Resulting in Increasing:

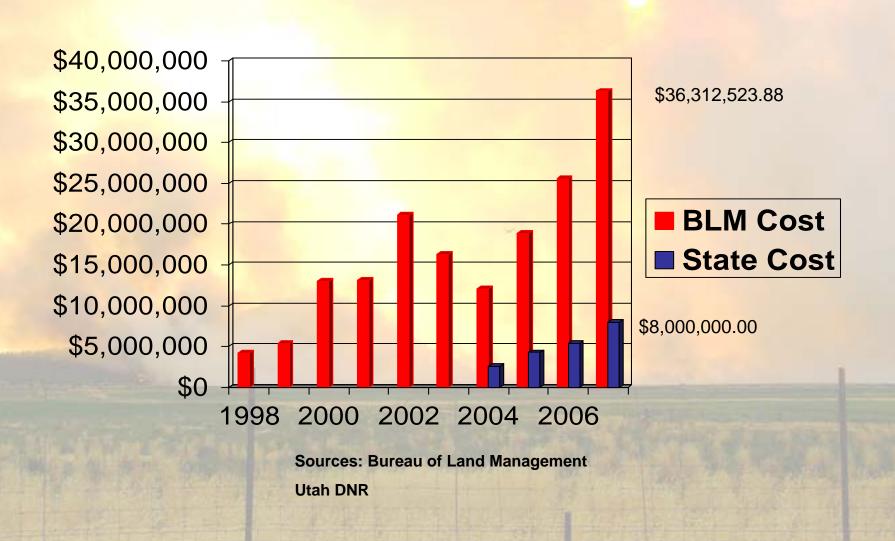
- Fire suppression and rehabilitation costs
- Impacts to:
 - Air quality and public safety
 - The environment
 - Wildlife habitat
 - Agriculture and rural economies

Wildfire Acres per Year

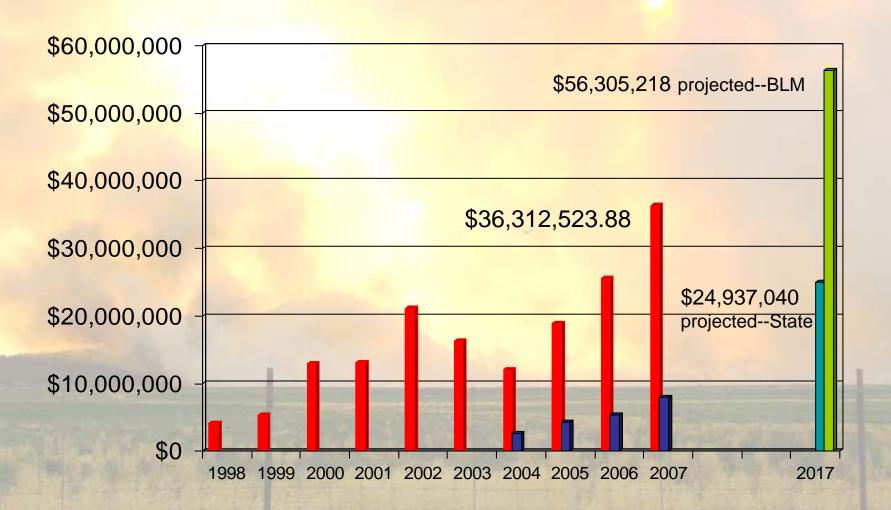
Bureau of Land Management; Bureau of Indian Affairs; Fish and Wildlife Service; National Parks Service; State/private; Other



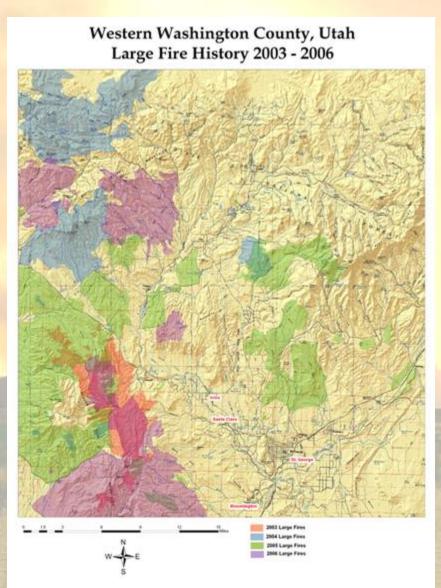
BLM and State Fire Suppression & Rehabilitation Costs-Utah



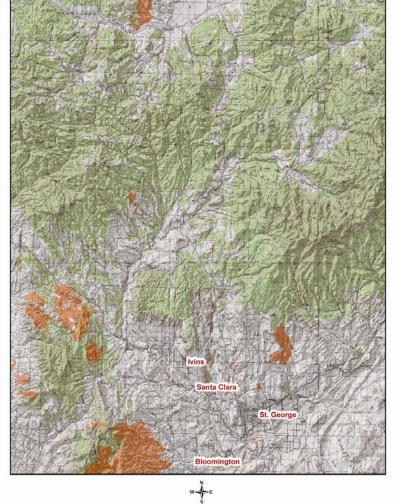
BLM & State Fire Suppression & Rehabilitation Costs-Utah Projected to 2017



Washington County Fire Progression







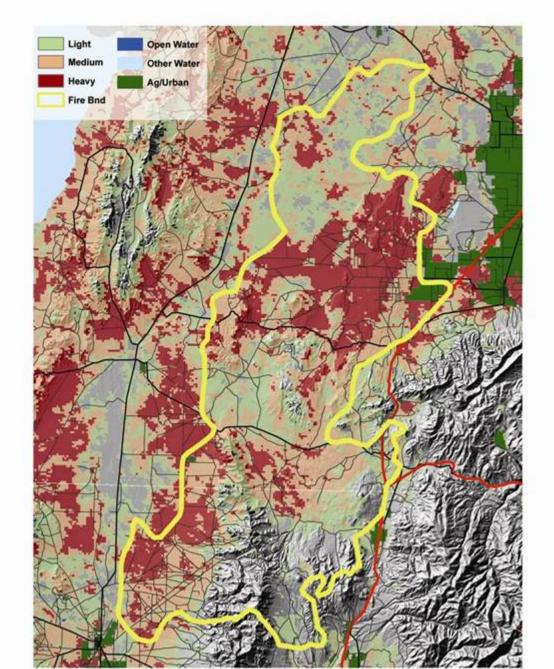
Fire Cycle

How often will various landscapes burn?

- Fire Return Interval
 - Upland Steppe and Sage Brush: 27-40 years
 - Pinion-Juniper: up to 100 years
 - Cheatgrass Landscape: 2-3 years
 - After 2-3 burn cycles, the native grasses will not return.

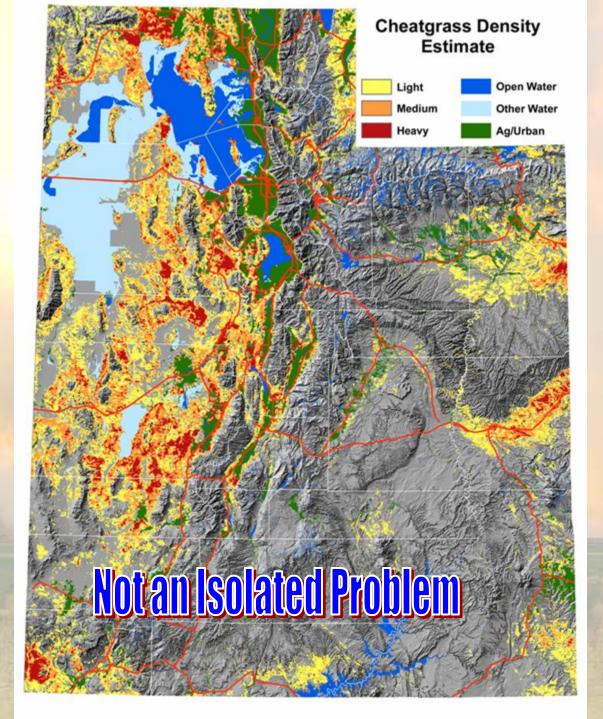
Source: Sheldon Wimmer, BLM, Utah

Cheatgrass Density Estimate Milford Flat



Milford flat cheatgrass density in 2005, with the 2007 fire area outlined in Yellow.

Map courtesy:
Utah State University



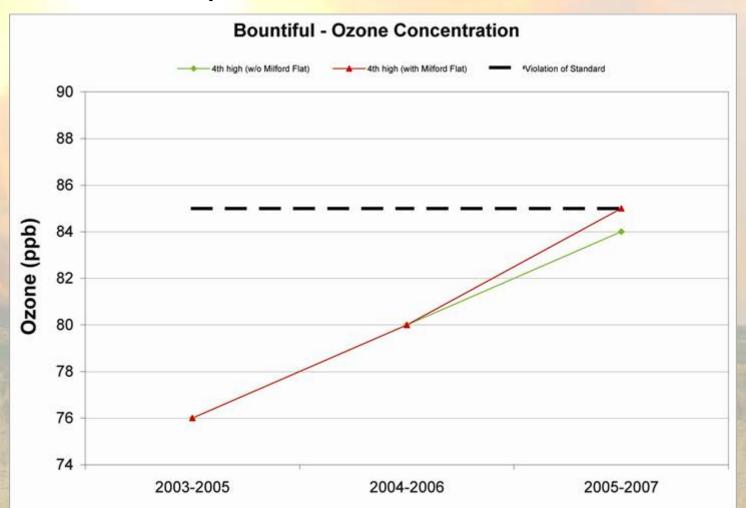
Map courtesy:

Utah State University

Environmental Impacts

Quality of Life

- Ozone
 - 2007 fires put Utah over EPA standard



Environmental Impacts PM10 and PM 2.5 Releases

- 2005—Wildfires statewide= 2,077 tons PM10
- 2007—Milford Flat fire only= 3,267 tons PM10
- PM 2.5 releases from the Milford flat fire = to 53% of total PM 2.5 releases from Utah's 2-mill. automobiles all year. It was like adding 1-mill. cars.

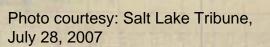




Other Impacts

- Farmers and ranchers
- Local businesses, including summer tourism
- Sage Grouse and other threatened

species, loss of habitat





Angela Bradshaw herds cattle away from the Milford Flat Fire in the Mineral Range south of Cove Fort earlier this month.

Is This Acceptable?

Ash and soil from Milford Flat fire being carried in the wind northward over I-15 and Wasatch urban areas



To Conduct a War on Cheatgrass

Must make the 'War' a priority

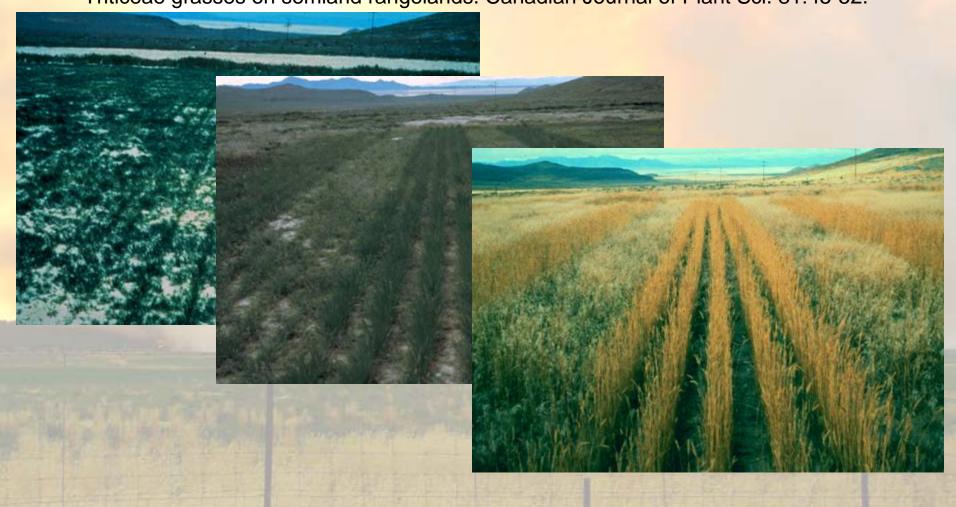
Must use the best plant materials & science

 Must be proactive by limiting size of future wildfires

Must be an ongoing commitment

Some plants can establish and compete with cheatgrass

Case in point -- Asay, Horton, Jensen, and Palazzo. 2001. Merits of native and introduced Triticeae grasses on semiarid rangelands. Canadian Journal of Plant Sci. 81:45-52.



Forage Kochia





Forage kochia slows spread of range fires
Twin Peaks test plots following 1986 fire



Range Management

- Work to improve range management:
 - Agencies, permittees, biologists, recreationists, etc.
- Use existing tools, develop new ones where needed
 - Infrastructure of the UtahPCD
 - Grazing Improvement Program
 - Watershed Restoration Initiative
 - Federal Programs

The Cost of Doing Nothing

- Increase in air pollution and health impacts
- Increase in Cheatgrass dominated rangelands
- Increase in fire frequency and intensity
- Increase in fire suppression costs
- Increase in loss of property and impacts to ranchers and rural communities
- Increase the risk of federal listing of wildlife species; e.g, sage grouse

Priorities

- 1. Public Health and Safety
- 2. Environmental Benefits
- 3. Rural Economies
- 4. Livestock and Wildlife Habitat

The Necessary Arsenal

- UCC/UtahPCD
 - Infrastructure
 - Inter-agency teams of experts
 - State, federal, local and private
 - Science and Technology
 - Inter-disciplinary experts
 - Rangeland, wildlife, agronomy, administrative
- Funding?

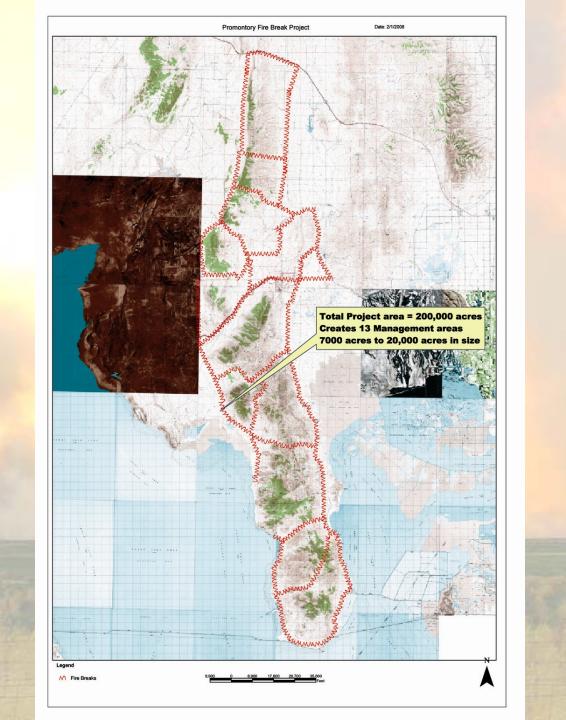
Call to Arms

- We must declare war on cheatgrass
 - Our current skirmishes are not sufficient
 - We must INVEST the necessary resources
- SB 89
 - "Mitigation of Invasive Species"

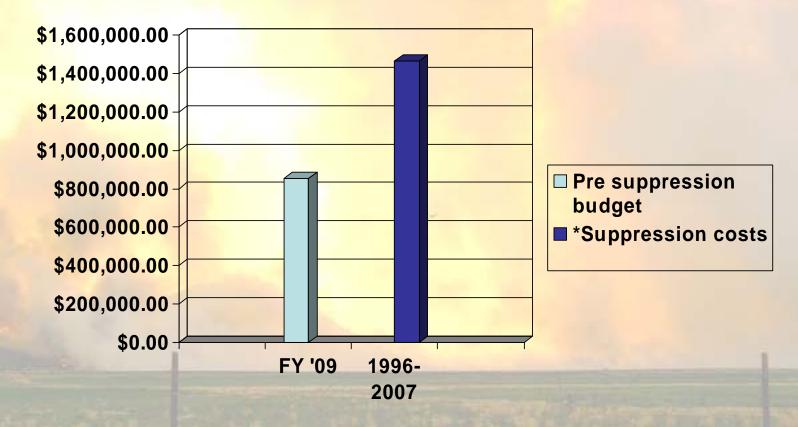
Dennis Stowell, sponsor

Promontory Project Example

- Project planners and participants
 - DWR,
 - NRCS,
 - USFWS,
 - UGIP, UACD,
 - Fire and State Lands,
 - Golden Spike, Thiokol, Scott Sandall, Frank Rees, Kellers, QRM, Fort Ranch, Youngs, Chournos's, Rattlesnake CWMU, Forestry Box Elder County, Box Elder County Fire Marshall



Pay Now or Pay Later



^{*} This figure represents fire suppression costs and some physical damages. It does not include emergency stabilization or rehabilitation, which can cost 2-3 times the amount of suppression.

Additional Information

To view this presentation and additional information about the War of Cheatgrass,

Visit the Utah Department of Agriculture and Food website:

www.ag.utah.gov